and Charles counties, that lie on the Potomac. It does not purport to be an exact delineation of the geography of the country, no surveys having as yet been made of it; but even in this respect it will be found more accurate, and by its execution doubtless more satisfactory, in representing the true character of the country, than the flat maps hitherto resorted to. As on Map A, which refers to the topography and geology of a portion of the Eastern Shore of Maryland, there is indicated upon it the most prominent conditions of the soil, the principal localities of the various kinds of marl, and every mineral characteristic or other resource so far determined to appertain to the country. The result of the examinations and discoveries made during the past year in this section of the state, in reference to these subjects, will be more fully detailed under the following heads:

1st. Geology of Prince George's and Charles counties on the

Potomac, and characters of their soil.

2d. Principal localities of the shell-marl deposites on the Potomac, their constitution, relative value, and use.

3d. Mineral resources of the portions of Prince George's and

Charles counties situated on the Potomac.

Sect. I.—Geology of Princes George's and Charles counties on the Potomac, and characters of their soils.

This portion of the State of Maryland, commencing at the North-east Branch of the Potomac, exhibits a succession of abrupt hills, crowned by plateaus of variable extent, and sloping gently towards the south. These hills consist in a diluvial deposite of gravel, sand, and clay, in some places covered by a considerable accumulation of erratic boulders derived from the primitive mountains to which they are adjacent. The depth of this diluvial deposite varies from two hundred to a very few feet, diminishing in thickness, as the hills decrease in elevation, in the direction of their slope towards the Chesapeake bay. decrease in the size of the pebbles forming the gravel, a marked difference in its mode of admixture with the sand and clay, and a diminution, to total absence, of erratic rocks, are also observed corresponding with the direction of the slope. It is very probable that this diluvial formation rests, in nearly the whole of its extent, upon a vast accumulation of fossil shells imbedded sometimes in a ferruginous sand, sometimes in clay, and constituting the marl deposites of this portion of the state. The ravines